ABSTRACT

MOISTURE SENSOR WITH CAPACITIVE MOISTURE MEASURING ELEMENT AND METHOD OF DETERMINING AIR HUMIDITY

In a method of determining air humidity, a corrected moisture signal is calculated for a moisture signal (Hi) ascertained from electrical properties of a capacitive moisture measuring element. In a measuring phase (30) with rising relative air humidity (RH), the corrected moisture signal is the current moisture signal (Hi) increased by a correction value, whereas in a measuring phase (31) with falling relative air humidity (RH) the corrected moisture signal is the current moisture signal (Hi) reduced by a correction value. Depending on the respective properties of the moisture measuring element and the required degree of measuring accuracy, the correction value is constant or is taken into consideration in dependence on the relative air humidity RH. This method provides a higher level of measuring accuracy with a moisture sensor equipped with the moisture measuring element.

(Figure 5)